

IN THE CLAIMS:

Please amend the claims as follows:

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8. (Amended) A process for preparing linear high melt strength propylene homopolymers and copolymers, exhibiting a melt-strength of at least 2.5 g, determined by the haul-off, comprising the steps of

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- subjecting propylene and optionally other olefins to polymerization in a plurality of polymerization reactors connected in series,
 - employing different amounts of hydrogen as a molar mass modifier in at least two of the reactors, and
 - carrying out the polymerization reaction in the presence of a catalyst system capable of catalyzing the formation of a high molar mass polymerization product having a MFR₂ of less than 0.1 g/10 min and a low or medium molar mass polymerization product having a MFR₂ of more than 0.5 g/10 min.

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17. (Twice Amended) The process according to claim 8, wherein 5 to 50 % of the propylene homopolymer or copolymer has a MFR₂ < 0.1 g/10 min and 50 to 95 % of the propylene homopolymer or copolymer has a MFR₂ > 0.5 g/10 min.

18. (Twice Amended) The process according to claim 8, wherein said reactors are selected from the group of loop reactors and gas phase reactors.

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21. (Twice Amended) The process according to claim 8, wherein ethylene is fed into the reactor in which the higher molar mass component is produced in order to increase reactivity and molar mass of the component.

22. (Twice Amended) The process according to claim 8, which comprises the steps of

- subjecting propylene and optionally other olefins to a first polymerization or copolymerization reaction in a first reaction zone,
- recovering the first polymerization product from the first reaction zone,

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- feeding the first polymerization product to a second reaction zone,
 - feeding additional propylene to the second reaction zone,
 - subjecting the additional propylene to a second polymerization reaction in the presence of the first polymerization product to produce a second polymerization product, and
 - recovering the second polymerization product from the second reaction zone, and
 - separating and recovering the polypropylene from the second reaction product.
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28. (Twice Amended) The process according to claim 8, wherein the second reactor is a gas phase reactor, wherein propylene and optionally comonomers are polymerized in a gaseous reaction medium.

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41. (Twice Amended) A product prepared by a process according to claim 8, which is nucleated for higher crystallization temperature, stiffness and optical properties.

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42. (Twice Amended) A method for manufacturing polymer foams, thermoformed and foamed products, films and sheets, and products by blow molding, stretch blow molding, injection moulding or calendering a homopolymer or copolymer according to claim 1 or a polymer product according to claim 5.

REMARKS

1. Specification

The specification has been amended to provide reference to English language documents for the Finnish-language documents cited in Applicants' Information Disclosure Statement filed on June 16, 2000.

2. Claims

The Examiner has noted that claims 17, 18, 21, 22, 28 and 41 were incorrectly amended to depend upon product claim 1. These claims have been amended to properly depend upon process claim 8.